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File Edit Selection View Go Run ... BCDV 4032 - Buliding Scalable Blockchain Apps
```

EXPLORER

- BCDV 4032 - BUILDING SCALA...
- > Autoapply
- > autoseup
- > Lab1
- > Lab2
- > Lab3
- > Lab4
- \$ get\_helm.sh
- kubectl.exe
- Lab1 Screenshots.docx
- minikube-linux-amd64
- output.yaml
- Presentation1.pptx
- screenshots.docx

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\Faizan\Desktop\Blockchain Development\BCDV 4032 - Buliding Scalable Blockchain Apps> helm repo add prometheus-community https://prometheus-community.github.io/helm-charts
"prometheus-community" has been added to your repositories
PS C:\Users\Faizan\Desktop\Blockchain Development\BCDV 4032 - Buliding Scalable Blockchain Apps> helm repo update
Hang tight while we grab the latest from your chart repositories...
...Successfully got an update from the "prometheus-community" chart repository
Update Complete. Happy Helming!
PS C:\Users\Faizan\Desktop\Blockchain Development\BCDV 4032 - Buliding Scalable Blockchain Apps> helm install prometheus prometheus-community/prometheus
NAME: prometheus
LAST DEPLOYED: Sun Feb 4 16:38:52 2024
NAMESPACE: default
STATUS: deployed
REVISION: 1
TEST SUITE: None
NOTES:
The Prometheus server can be accessed via port 80 on the following DNS name from within your cluster:
prometheus-server.default.svc.cluster.local

Get the Prometheus server URL by running these commands in the same shell:
export POD_NAME=$(kubectl get pods --namespace default -l "app.kubernetes.io/name=prometheus,app.kubernetes.io/instance=prometheus" -o jsonpath="{.items[0].metadata.name}")
kubectl --namespace default port-forward $POD_NAME 9090

The Prometheus alertmanager can be accessed via port 9093 on the following DNS name from within your cluster:
prometheus-alertmanager.default.svc.cluster.local

Get the Alertmanager URL by running these commands in the same shell:
export POD_NAME=$(kubectl get pods --namespace default -l "app.kubernetes.io/name=prometheus,app.kubernetes.io/instance=prometheus" -o jsonpath="{.items[0].metadata.name}")
kubectl --namespace default port-forward $POD_NAME 9093
##### WARNING: Pod Security Policy has been disabled by default since it deprecated after k8s 1.25+. use #####
```

Ln 1, Col 5 Spaces: 2 UTF-8 LF Shell Script Go Live

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```
##### "pspEnabled" with (index .Values "prometheus-node-exporter" "rbac" "pspAnnotations") #####
##### in case you still need it. #####
#####

The Prometheus PushGateway can be accessed via port 9091 on the following DNS name from within your cluster:
prometheus-prometheus-pushgateway.default.svc.cluster.local

Get the PushGateway URL by running these commands in the same shell:
export POD_NAME=$(kubectl get pods --namespace default -l "app=prometheus-pushgateway,component=pushgateway" -o jsonpath="{.items[0].metadata.name}")
kubectl --namespace default port-forward $POD_NAME 9091

For more information on running Prometheus, visit:
https://prometheus.io/
PS C:\Users\Faizan\Desktop\Blockchain Development\BCDV 4032 - Buliding Scalable Blockchain Apps> kubectl get pods
NAME READY STATUS RESTARTS AGE
dapp-57fb7cd8c7-brx56 1/1 Running 0 9d
dapp-68fc8968b7-wfak6 0/1 Pending 0 6d18h
ganache-67d6c69959-r1s2m 1/1 Running 7 (4m2s ago) 9d
mongo-express-deployment-b88fed45f-cqncv 1/1 Running 7 (4m10s ago) 15d
mongodb-stateful-set-0 1/1 Running 7 (4m8s ago) 15d
mongodb-stateful-set-1 1/1 Running 7 (4m8s ago) 15d
note-deployment-74cc946cd8-8jrmf 1/1 Running 12 (2m49s ago) 15d
note-deployment-74cc946cd8-qwc1h 1/1 Running 12 (3m1s ago) 15d
note-server-deployment-6fb5fcb67f-97qxg 1/1 Running 7 (4m3s ago) 15d
note-server-deployment-6fb5fcb67f-ngk5s 1/1 Running 7 (4m3s ago) 15d
prometheus-alertmanager-0 1/1 Running 0 79s
prometheus-kube-state-metrics-745b475957-q9vd5 1/1 Running 0 80s
prometheus-prometheus-node-exporter-z68hc 1/1 Running 0 80s
prometheus-prometheus-pushgateway-6ccdb98d79-cvpcw 1/1 Running 0 80s
prometheus-server-5c99dfc547-7dn6v 0/2 ContainerCreating 0 80s
react-85d6f94df-q9d4 1/1 Running 7 (4m1s ago) 9d
PS C:\Users\Faizan\Desktop\Blockchain Development\BCDV 4032 - Buliding Scalable Blockchain Apps>
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```
PS C:\Users\Faizan\Desktop\Blockchain Development\BCDV 4032 - Buliding Scalable Blockchain Apps> kubectl get svc
NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S) AGE
dapp ClusterIP 10.107.226.225 <none> 4000/TCP 9d
ganache ClusterIP 10.107.21.110 <none> 8545/TCP 9d
kubernetes ClusterIP 10.96.0.1 <none> 443/TCP 15d
mongo-express-service LoadBalancer 10.108.122.243 <pending> 8081:30193/TCP 15d
mongodb-service ClusterIP 10.109.226.50 <none> 27017/TCP 15d
note-server-service ClusterIP 10.97.158.243 <none> 5000/TCP 15d
note-service LoadBalancer 10.104.239.136 <pending> 3000:32322/TCP 15d
prometheus-alertmanager ClusterIP 10.111.232.23 <none> 9093/TCP 3m7s
prometheus-alertmanager-headless ClusterIP None <none> 9093/TCP 3m7s
prometheus-kube-state-metrics ClusterIP 10.96.233.197 <none> 8080/TCP 3m7s
prometheus-prometheus-node-exporter ClusterIP 10.97.154.50 <none> 9100/TCP 3m7s
prometheus-prometheus-pushgateway ClusterIP 10.97.146.79 <none> 9091/TCP 3m6s
prometheus-server ClusterIP 10.111.90.56 <none> 80/TCP 3m7s
react LoadBalancer 10.103.251.191 <pending> 3001:32628/TCP 9d
PS C:\Users\Faizan\Desktop\Blockchain Development\BCDV 4032 - Buliding Scalable Blockchain Apps>
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```
PS C:\Users\Faizan\Desktop\Blockchain Development\BCDV 4032 - Buliding Scalable Blockchain Apps> kubectl get svc
NAME                                TYPE                CLUSTER-IP      EXTERNAL-IP      PORT(S)          AGE
dapp                                ClusterIP           10.107.226.225  <none>           4000/TCP         9d
ganache                             ClusterIP           10.107.21.110   <none>           8545/TCP         9d
kubernetes                           ClusterIP           10.96.0.1       <none>           443/TCP          15d
mongo-express-service               LoadBalancer       10.108.122.243  <pending>        8081:30193/TCP   15d
mongodb-service                     ClusterIP           10.109.226.50   <none>           27017/TCP        15d
note-server-service                 ClusterIP           10.97.158.243   <none>           5000/TCP         15d
note-service                         LoadBalancer       10.104.239.136  <pending>        3000:32322/TCP   15d
prometheus-alertmanager             ClusterIP           10.111.232.23   <none>           9093/TCP         4m37s
prometheus-alertmanager-headless    ClusterIP           None            <none>           9093/TCP         4m37s
prometheus-kube-state-metrics        ClusterIP           10.96.233.197   <none>           8080/TCP         4m37s
prometheus-prometheus-node-exporter  ClusterIP           10.97.154.50    <none>           9100/TCP         4m37s
prometheus-prometheus-pushgateway   ClusterIP           10.97.146.79    <none>           9091/TCP         4m36s
prometheus-server                    ClusterIP           10.111.90.56    <none>           80/TCP           4m37s
prometheus-server-ext                NodePort            10.111.19.117   <none>           80:32030/TCP     27s
react                                LoadBalancer       10.103.251.191  <pending>        3001:32628/TCP   9d
PS C:\Users\Faizan\Desktop\Blockchain Development\BCDV 4032 - Buliding Scalable Blockchain Apps> 
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PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS C:\Users\Faizan\Desktop\Blockchain Development\BCDV 4032 - Buliding Scalable Blockchain Apps> helm repo update
Hang tight while we grab the latest from your chart repositories...
...Successfully got an update from the "grafana" chart repository
...Successfully got an update from the "prometheus-community" chart repository
Update Complete. ✎Happy Helming!✎
PS C:\Users\Faizan\Desktop\Blockchain Development\BCDV 4032 - Buliding Scalable Blockchain Apps> helm install grafana grafana/grafana
NAME: grafana
LAST DEPLOYED: Sun Feb  4 22:09:58 2024
NAMESPACE: default
STATUS: deployed
REVISION: 1
NOTES:
1. Get your 'admin' user password by running:

    kubectl get secret --namespace default grafana -o jsonpath="{.data.admin-password}" | base64 --decode ; echo

2. The Grafana server can be accessed via port 80 on the following DNS name from within your cluster:

    grafana.default.svc.cluster.local

Get the Grafana URL to visit by running these commands in the same shell:
  export POD_NAME=$(kubectl get pods --namespace default -l "app.kubernetes.io/name=grafana,app.kubernetes.io/instance=grafana" -o jsonpath="{.items[0].metadata.name}")
  kubectl --namespace default port-forward $POD_NAME 3000

#####
##### WARNING: Persistence is disabled!!! You will lose your data when #####
#####
```



